AMENDMENT

IN THE CLAIMS:

Please amend the claims to read as follows:

- -1. (original) A method of purifying, comprising the following steps:

a) providing a quantity of degassed water;

b) heating the degassed water to at least 260 degrees F.;

c) injecting the heated degassed water into a vacuum chamber to superheat the water to at least 350 degrees F.; and

d) allowing the super heated degassed water to vaporize in an explosive fashion, evaporating rapidly and condensing in a counter current chiller.

2. (original) The method of in claim 1, further comprising the step of draining the condensed water into a holding tank.

3. (Currently amended) The method in claim 1, further comprising the step of pumping the condensed water out through a mineral column and a carbon column to replenish the trace minerals and remove any residual "off taste".

4. (Currently amended) The method in claim 1, further comprising the step of attaching an incoming water line to a counter current heat exchanger to preheat the incoming water and cool the "high side" gas in a refrigeration unit.

5. (original) The method in claim 4, wherein the heat exchanger further comprises a first counter current conduit contained within a gas conduit.

6. (original) The method in claim 4, wherein the water incoming into the counter current exchanger is the same temperature as the existing as and the exiting water is the same temperature as the incoming gas.

7. (Currently Amended) The method in claim 1, further comprising the step of providing an electronically controlled valve for controlling degassed ~~access of incoming~~ water ~~to the system, maintaining the system or to cut off water in an emergency~~.

8. (Currently Amended) The method in claim 1, wherein the ~~process~~ water enters a band of centrifugal, vacuum chambers through a manifold and electronic valving system, closing 2 electronic valves and wherein the centrifugal force forms a thin layer of water and the vacuum as well as the centrifugal force brings about a removal of dissolved gases from the feed water.

9. (Currently amended) A point of use water purification system, comprising:

a) means for heating degassed water to at least 260 degrees F.;

b) a heated vacuum chamber for receiving the heated and vaporized water ~~and vaporizing the water~~ in an explosive fashion; and

c) means for condensing and cooling the water for consumption.

10. (original) The system in claim 9, wherein the water is condensed in a counter current chiller.

11. (Currently amended) The system in claim 9, further comprising a mineral column and carbon column for replenishing the trace minerals and removing any residual ~~"~~off taste~~"~~ from the condensed water.

12. (Currently amended) The system in claim 9, further comprising a containment means wherein the incoming water line is attached to a counter current heat exchange to preheat an ~~the~~ incoming water and cool the "high side" gas in a refrigeration unit.

13. (Currently amended) A point of use water purification system, comprising:

a) means for heating degassed water to at least 260 degrees F.;

b) a heated vacuum chamber for receiving the heated and vaporized water ~~and vaporizing the water~~ in an explosive fashion;

c) means for condensing and cooling the water for consumption; and

d) means for replacing trace minerals in the water prior to consumption.

14. (original) The system in claim 13, further comprising a heat exchanger further comprising, counter current conduits defining a water conduit on the inside of a gas conduit.

15. (Currently amended) The system in claim 13, wherein the income water flowing into a ~~the~~ counter current exchanger is the same temperature as the exiting gas and the exiting water is the same temperature as the income gas.

16. (original) The system in claim 13, further comprising an electronically controlled valve for controlling the access of incoming water into a system, for maintaining or cutting off water in an emergency.

17. (original) The system in claim 13, wherein there is provided a band of centrifugal vacuum chambers to a manifold and electronic valving system for receiving the condensed and cooled water.

18. (Currently amended) The system in claim 13, further providing an electronically heated ~~(~~or gas heated ~~or other energy source)~~ vegetable oil circulated through a jacket in a ~~the "~~preheat~~"~~ heat exchanger and the heated vacuum chamber.

19. (Currently amended) The system in claim 13, further providing an electrical refrigeration unit used to chill the brine of the counter current condensing chamber and to provide heat to the ~~feed water "~~preheat~~"~~ heat exchanger.

20. (Currently amended) The system in claim 13, further providing a back wash system for each part of the system which contains a scale dissolving potable water ~~for keeping the system clean~~; the back wash timed and sequenced by a ~~the~~ computer processor.

21. (Currently amended) The system in claim 13, wherein ~~the unit provides~~ there is provided at least four (4) degassing centrifugal vacuum chambers and four (4) heated vacuum vaporization chambers, each of which operates as a batch process and is sequenced by the computer controller as sensors indicate the unit is operational from the stand point of temperature, pressure or vacuum.